```
          9          18          27          36          45          54
5'   G CGG TGG TGA CTG AGC TAC GAG CCT GGC GGC GGG TGT GCG CCG AGC CCC GGC


          63          72          81          90          99         108
     CCG GCC CGG CCC TCG CGT GCC TCC CAG GCT CCG CAC CCC TGA TGC TGC GCG GGT


         117         126         135         144         153         162
     GCT GAG CCC GCT TCG GCC GGG ACG ATG GTG AAG TAT TTC CTG GGC CAG AGC GTG
                                     M   V   K   Y   F   L   G   Q   S   V


         171         180         189         198         207         216
     CTC CGG AGT TCC TGG GAC CAA GTG TTC GCC GCC TTC TGG CAG CGG TAC CCG AAT
      L   R   S   S   W   D   Q   V   F   A   A   F   W   Q   R   Y   P   N


         225         234         243         252         261         270
     CCC TAT AGC AAA CAT GTC TTG ACG GAA GAC ATA GTA CAC CGG GAG GTG ACC CCT
      P   Y   S   K   H   V   L   T   E   D   I   V   H   R   E   V   T   P


         279         288         297         306         315         324
     GAC CAG AAA CTG CTG TCC CGG CGA CTC CTG ACC AAG ACC AAC AGG ATG CCA CGC
      D   Q   K   L   L   S   R   R   L   L   T   K   T   N   R   M   P   R


         333         342         351         360         369         378
     TGG GCC GAG CGA CTA TTT CCT GCC AAT GTT GCT CAC TCG GTG TAC GTC CTG GAG
      W   A   E   R   L   F   P   A   N   V   A   H   S   V   Y   V   L   E


         387         396         405         414         423         432
     GAC TCT ATT GTG GAC CCA CAG AAT CAG ACC ATG ACT ACC TTC ACC TGG AAC ATC
      D   S   I   V   D   P   Q   N   Q   T   M   T   T   F   T   W   N   I


         441         450         459         468         477         486
     AAC CAC GCC CGG CTG ATG GTG GTG GAG GAA CGA TGT GTT TAC TGT GTG AAC TCT
      N   H   A   R   L   M   V   V   E   E   R   C   V   Y   C   V   N   S


         495         504         513         522         531         540
     GAC AAC AGT GGC TGG ACT GAA ATC CGC CGG GAA GCC TGG GTC TCC TCT AGC TTA
      D   N   S   G   W   T   E   I   R   R   E   A   W   V   S   S   S   L


         549         558         567         576         585         594
     TTT GGT GTC TCC AGA GCT GTC CAG GAA TTT GGT CTT GCC CGG TTC AAA AGC AAC
      F   G   V   S   R   A   V   Q   E   F   G   L   A   R   F   K   S   N


         603         612         621         630         639         648
     GTG ACC AAG ACT ATG AAG GGT TTT GAA TAT ATC TTG GCT AAG CTG CAA GGC GAG
      V   T   K   T   M   K   G   F   E   Y   I   L   A   K   L   Q   G   E


         657         666         675         684         693         702
     GCC CCT TCC AAA ACA CTT GTT GAG ACA GCC AAG GAA GCC AAG GAG AAG GCA AAG
      A   P   S   K   T   L   V   E   T   A   K   E   A   K   E   K   A   K
```

FIGURE 1A

```
              711           720           729           738           747           756
GAG ACG GCA CTG GCA GCT ACA GAG AAG GCC AAG GAC CTC GCC AGC AAG GCG GCC
 E   T   A   L   A   A   T   E   K   A   K   D   L   A   S   K   A   A

              765           774           783           792           801           810
ACC AAG AAG CAG CAG CAG CAG CAA CAG TTT GTG TAG CCA GTC TAC CAC CAC CAC
 T   K   K   Q   Q   Q   Q   Q   Q   F   V

              819           828           837           846           855
AGC ACC CCA GAC AGC TAG GCT TAG CCC CTC TGC CCT CCC TTC ATT GTA CT 3'
```

FIGURE 1B

```
  1  M V K Y F L G Q S V L R S S W D Q V F A A F W Q R Y P N P Y S K H V L T E D I V   2344864
  1  M G K Y C A S L G V L K G P W D Q V F A A F W Q R Y P N P Y S K H V L T E D I V   GI 969170

 41  H R E V T P D Q K L L S R R L L T K T N R M P R W A E R L F P A N V A H S V Y V   2344864
 41  H R E V T A D H K L L S R R L L T K T N R M P R W A E N F F P A N V A H N V Y I   GI 969170

 81  L E D S I V D P Q N Q T M T T F T W N I N H A R L M V V E E R C V Y C V N S D N   2344864
 81  V E D S I V D F K N R T M T T F T W N I N H A R L M A V E E R C V Y R V N P E N   GI 969170

121  S G W T E I R R E A W V S S S L F G V S R A V Q E F G L A R F K S N V T K T M K   2344864
121  S S W T E V K R E A W V S S S L F G V S R A V Q E F G L A R F K S N V T K S T K   GI 969170

161  G F E Y I L A K L Q G E A P S K T L V E T A K E A K E K A K E T A L A A T E K A   2344864
161  G F E Y V L A R M Q G E A P S K T L V E T A K E A T E K A K E T A L A A T E K A   GI 969170

201  K D L A S K A A T K K Q Q Q Q Q F V   2344864
201  K D L A S K A A T K K K Q - - - F V   GI 969170
```
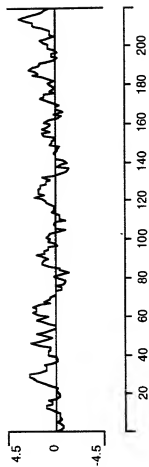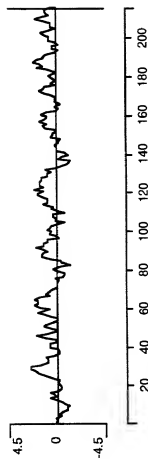
FIGURE 2

FIGURE 3A

FIGURE 3B